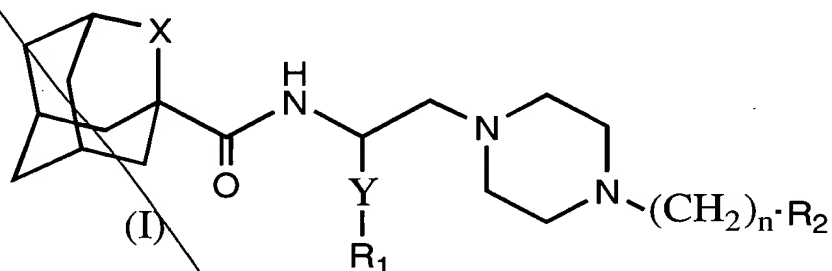


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**What is Claimed:**

1. A compound of the formula (I):



wherein:

X is selected from  $-\text{CH}_2-$  or a chemical bond;

Y is selected from  $-(\text{CH}_2)_m-$  or  $-(\text{CH}_2)-\text{O}-(\text{CH}_2)-$ ;

m is selected from the integer 0 or 1;

n is selected from the integer 0 or 1;

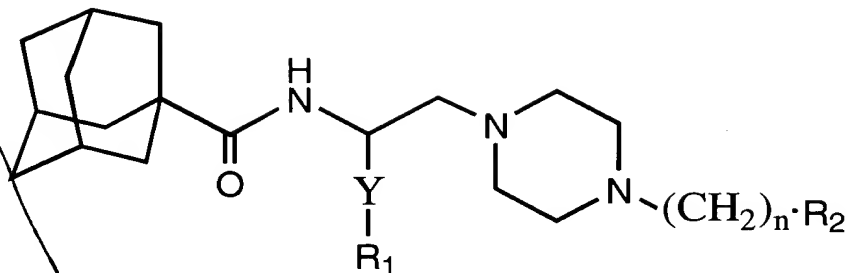
$\text{R}_1$  and  $\text{R}_2$  are independently selected from the group consisting of aryl or heteroaryl of from 5 – 10 atoms optionally substituted with F, Cl, Br, I,  $-\text{OH}$ ,  $-\text{NH}_2$ ,  $-\text{CO}_2\text{H}$ ,  $-\text{CO}_2-\text{C}_1-\text{C}_6$  alkyl,  $-\text{CN}$ ,  $-\text{NO}_2$ ,  $\text{C}_1-\text{C}_6$  alkyl,  $\text{C}_2-\text{C}_6$  alkenyl,  $\text{C}_2-\text{C}_6$  alkynyl,  $\text{C}_1-\text{C}_6$  perhaloalkyl,  $\text{OR}_3$ , or  $\text{C}_1-\text{C}_6$  perhaloalkoxy;

$\text{R}_3$  is selected from the group consisting of H,  $\text{C}_1-\text{C}_6$  alkyl,  $\text{C}_2-\text{C}_6$  alkenyl,  $\text{C}_2-\text{C}_6$  alkynyl,  $\text{C}_6-\text{C}_{10}$  aryl, mono or bicyclic heteroaryl,  $\text{C}_7-\text{C}_{14}$  aralkyl, and mono or bicyclic heteroaralkyl, where the aryl or heteroaryl group is optionally substituted with one to three substituents independently selected from the group consisting of F, Cl, Br, I, CN,  $-\text{NH}_2$ ,  $-\text{NO}_2$ ,  $-\text{OH}$ , alkyl,  $\text{C}_2-\text{C}_6$  alkenyl,  $\text{C}_2-\text{C}_6$  alkynyl,  $\text{C}_1-\text{C}_6$  perhaloalkyl,  $\text{C}_1-\text{C}_6$  alkoxy, and  $\text{C}_1-\text{C}_6$  perhaloalkoxy; and the optical isomers or a pharmaceutically acceptable salt thereof.

2. A compound of Claim 1 having the formula:

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wherein:

Y is selected from  $-(CH_2)_m-$  or  $-(CH_2)-O-(CH_2)-$ ;

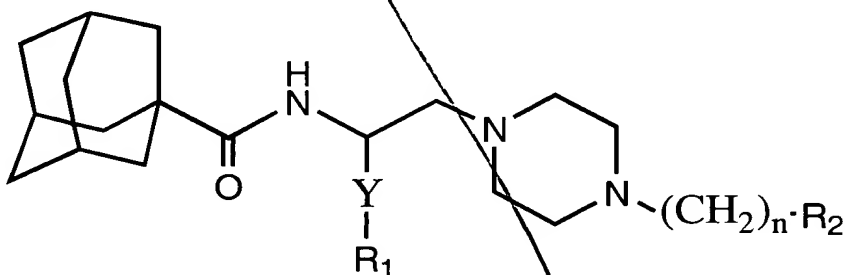
m is selected from the integer 0 or 1;

n is selected from the integer 0 or 1;

$R_1$  is phenyl optionally substituted with F, Cl, Br, I, -OH, -NH<sub>2</sub>, -CO<sub>2</sub>H, -CO<sub>2</sub>-C<sub>1</sub>-C<sub>6</sub> alkyl, -CN, -NO<sub>2</sub>, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>2</sub>-C<sub>6</sub> alkenyl, C<sub>2</sub>-C<sub>6</sub> alkynyl, C<sub>1</sub>-C<sub>6</sub> perhaloalkyl or C<sub>1</sub>-C<sub>6</sub> perhaloalkoxy;

$R_2$  is selected from phenyl, naphthyl, piperazinyl, pyridine, thiophene, furan, imidazole, oxazole, pyrrole, pyrimidine, pyridazine, pyrazine, thiazole or oxathiazole; and the optical isomers or a pharmaceutically acceptable salt thereof.

3. A compound of Claim 1 of the formula:



wherein:

Y is selected from  $-CH_2-$ ;

m is selected from the integer 0 or 1;

n is selected from the integer 0 or 1;

$R_1$  is phenyl optionally substituted with F, Cl, Br, I, -OH, -NH<sub>2</sub>, -CO<sub>2</sub>H, -CO<sub>2</sub>-C<sub>1</sub>-C<sub>6</sub> alkyl, -CN, -NO<sub>2</sub>, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>1</sub>-C<sub>6</sub> alkoxy, C<sub>2</sub>-C<sub>6</sub> alkenyl, C<sub>2</sub>-C<sub>6</sub> alkynyl, C<sub>1</sub>-C<sub>6</sub> perhaloalkyl or C<sub>1</sub>-C<sub>6</sub> perhaloalkoxy;

$R_2$  is phenyl or pyrimidinyl;

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5 and the optical isomers or a pharmaceutically acceptable salt thereof.

4. A compound of Claim 1 which is (R)-N-[1-(Phenylmethyl)-2-[4-(phenylmethyl)-1-piperazinyl]ethyl]tricyclo[3.3.1.1<sup>3,7</sup>]-decane-1-carboxamide Dihydrochloride Dihydrate.

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5. A compound of Claim 1 which is (R)-Phenylalanine-N-[4-(phenylmethyl)-1-piperizinyl]carboxamide Dihydrochloride.

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6. A compound of Claim 1 which is (R)-[1-(Phenylmethyl)-2-[(4-phenylmethyl)-1-piperazinyl]ethyl]amine.

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7. A compound of Claim 1 which is (R)-N-[1-(Phenylmethyl)-2-[4-(phenylmethyl)-1-piperazinyl]ethyl]tricyclo-[3.3.1.1<sup>3,7</sup>]-decane-1-carboxamide Dihydrochloride Dihydrate.

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8. A compound of Claim 1 which is (S)-N-[1-(Phenylmethyl)-2-[4-(phenylmethyl)-1-piperazinyl]ethyl]tricyclo[3.3.1.1<sup>3,7</sup>]-decane-1-carboxamide Dihydrochloride Dihydrate.

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9. A compound of Claim 1 which is (R)-N-[1-(Phenylmethyl)-2-[4-(2-pyrimidinyl)-1-piperazinyl]ethyl]tricyclo[3.3.1.1<sup>3,7</sup>]-decane-1-carboxamide Hemihydrate

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10. A compound of Claim 1 which is (S)-N-[1-(Phenylmethyl)-2-[4-(2-pyrimidinyl)-1-piperazinyl]ethyl]tricyclo[3.3.1.1<sup>3,7</sup>]-decane-1-carboxamide

11. A compound of Claim 1 which is (R)-N-[1-((Phenylmethoxy)methyl)-2-[4-(phenylmethyl)-1-piperazinyl]ethyl]tricyclo-[3.3.1.1<sup>3,7</sup>]-decane-1-carboxamide Dihydrochloride Dihydrate

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12. A compound of Claim 1 which is (R)-Adamantane-1-carboxylic acid [1-(phenylmethyl)-2-[4-(2-methoxyphenyl)-piperazinyl]ethyl]-amide Hemifumarate Hemihydrate.

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13. A compound of Claim 1 which is (R)-[1-(Phenylmethyl)-2-[4-(2-methoxyphenyl)-1-piperazinyl]-2-oxo-ethyl]-carbamic acid tert-butyl ester.

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14. A compound of Claim 1 which is (R)-Adamantane-1-carboxylic acid [1-(phenylmethyl)-2-[4-(2-methoxyphenyl)-piperazinyl]ethyl]-amide Hemifumarate Hemihydrate.

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15. A compound of Claim 1 which is (S)-Adamantane-1-carboxylic acid [1-(phenylmethyl)-2-[4-(2-methoxyphenyl)-piperazinyl]ethyl]-amide Hemifumarate Hydrate.

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16. A method for treating neurodegenerative disorders comprising administering a therapeutically effective amount of a compound of Claim 1 or a pharmaceutical salt thereof, to a patient in need of said treatment.

17. The method of Claim 16 wherein the neurodegenerative disorder is chronic.

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18. The method of Claim 16 wherein the neurodegenerative disorder is Alzheimer's Disease.

19. The method of Claim 16 wherein the neurodegenerative disorder is Huntington's Disease.

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20. The method of Claim 16 wherein the neurodegenerative disorder is Parkinson's Disease.

21. The method of Claim 16 wherein the neurodegenerative disorder is AIDS dementia.

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5            22.    The method of Claim 16 wherein the neurodegenerative disorder is  
retinal disease.

23. The method of Claim 16 wherein the neurodegenerative disorder is epilepsy.

24. The method of Claim 16 wherein the neurodegenerative disorder is amyotrophic lateral sclerosis.

25. The method of Claim 16 wherein the neurodegenerative disorder is  
15 acute.

26. The method of claim 25 wherein the neurodegenerative disorder is stroke.

20            27.    The method of claim 26 wherein stroke is acute thromboembolic  
stroke.

28. The method of claim 26 wherein stroke is focal ischemia.

29. The method of claim 26 wherein stroke is global ischemia.

30. The method of claim 26 wherein stroke is transient ischemic attack.

31. The method of Claim 16 wherein the neurodegenerative disorder is  
30 ischemia resulting from a surgical technique involving prolonged halt of blood flow  
to the brain.

32. The method of claim 16 wherein the neurodegenerative disorder is head trauma.

[illegible]

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33. The method of claim 16 wherein the neurodegenerative disorder is spinal trauma.

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34. The method of claim 16 wherein the neurodegenerative disorder is hypoxia.

35. The method of claim 34 wherein the hypoxia is fetal hypoxia.

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36. A method of neuroprotection comprising administering a therapeutically effective amount of a compound of Claim 1, or a pharmaceutically acceptable salt thereof, to a patient in need thereof.

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37. A method of treating chronic pain comprising administering a therapeutically effective amount of a compound of Claim 1 or a pharmaceutical salt thereof, to a patient in need of said treatment.

38. The method of Claim 37 wherein the chronic pain is diabetic peripheral neuropathy.

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